Product Name: Akti-1/2
Catalog No.: 5773
Batch No.: 1
CAS Number: 612847-09-3
IUPAC Name: 1,3-Dihydro-1-[1-[[4-(6-phenyl-1H-imidazo[4,5-g]quinoxalin-7-yl)phenyl]methyl]-4-piperidinyl]-2H-benzimidazol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{34}N_{29}N_{7}O_{1}H_{2}O
   Batch Molecular Weight: 556.14
   Physical Appearance: Off White solid
   Solubility: DMSO to 20 mM with gentle warming
   Storage: Store at -20°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.8% purity
   ¹H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>73.43</td>
<td>73.34</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.35</td>
<td>5.27</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>17.63</td>
<td>17.4</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956
Description:
Potent and selective dual Akt1 and 2 inhibitor (IC50 values are 50 and 210 nM, respectively). Selective for Akt1 and 2 over a panel of other tyrosine and serine/threonine kinases. Sensitizes LnCaP cells to TRAIL (TNF-related apoptosis-inducing ligand) induced apoptosis. Active in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C39N54N1O.1H2O
Batch Molecular Weight: 556.14
Physical Appearance: Off White solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 20 mM with gentle warming

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: